As a below named inventor, I hereby declare:

That my residence, post office address and citizenship are as stated below next to my name.

| original, first and for which a patent                       | fily believe I am the joint inventor (if possible is sought on the information of the information of the content of the information of the informa | lural inventors ar<br>ivention entitled:                   | e named below) o   | of the subject materials of the subject materials. GN DEVICE I | atter wh<br>SILICO<br>FOR SI      | ich is c<br>ON SIN<br>INGLE    | claimed and<br>NGLE CRYSTAL<br>CRYSTAL INGOT  |
|--|--|--|--|--|-----------------------------------|--------------------------------|---|
| □ i  | s attached hereto.   |  | CRYSTAL WAFE   | ER   |                                   |                                |   |
| November  was filed on 19,1999 as Applicati (if applicable). |  |  | 1/JP99/<br><del>177</del> and wa                                 | s ameno  | ded on_                           | <del></del>                    |   |
|  | re reviewed and und<br>y amendment refer   |  | nts of the above-ide   | entified specifica   | ation, in                         | cluding                        | the claims,                                   |
|  | mowledge the duty<br>a Title 37, Code of   |  |  | material to pate   | ntability                         | y of this                      | application                                   |
| application(s) for p   | reby claim foreign<br>patent or inventor's<br>ntor's certificate o   | certificate listed   | below and have al  | so identified bel  | ow any                            | foreign                        | application                                   |
| Prior Foreign App  | plication(s)   |  |  |  | Priority<br>⊠                     | / Claim                        | ed  |
| 330713/1998  | Jap  | an   | 20/11/1998   | •  | Yes                               | No                             |   |
| (Number)   | (Countr  |  | (Day/Month/Yea   | ar Filed)  |                                   |                                | •   |
|  |  |  |  |  | Ø                                 |                                |   |
|  | 77166/1999 Japan   |  | 23/3/1999  |  | Yes                               | No                             | •   |
| (Number)   | (Countr  | у)   | (Day/Month/Yea   | ar Filed)  |                                   |                                |   |
| 129957/1999  | ) lar  | an   | 11/5/1999  |  | <b>X</b>                          |                                |   |
| (Number)   |  |  | (Day/Month/Yea   | ar Filed)  | Yes                               | No                             |   |
| listed below and,<br>United States app<br>acknowledge the d  | reby claim the bene<br>insofar as the subje<br>lication in the man<br>luty to disclose mat<br>etween the filing da   | ect matter of each<br>ner provided by<br>erial information | of the claims of t<br>the first paragraph<br>as defined in Title | his application in of Title 35, Us 37, Code of Fe              | is not di<br>Inited S<br>deral Re | sclosed<br>tates Co<br>gulatio | in the prior<br>ode, §112, I<br>ons, §1.56(a) |
| United States App  | olication(s)   |  |  |  |                                   |                                |   |
| (Application Serial No.) (Fi                                 |  | (Filing Date)  |  | (Status)-(Patented, pending, abandoned)                        |                                   |                                |   |
| (Application Serial No.) (Filing Date                        |  | (Filing Date)  |  | (Status)-(Pater  | ited, per                         | nding, a                       | abandoned)                                    |

That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

I hereby appoint the following attorneys, with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith and request that all correspondence and telephone calls in respect to this application be directed to: WELSH & KATZ, LTD., 120 South Riverside Plaza, 22nd Floor, Chicago, Illinois 60606-3913, Telephone No.: (312) 655-1500:

| Attorney  | Registration No.   |
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| Donald L. Welsh A. Sidney Katz Richard L. Wood Jerold B. Schnayer Eric C. Cohen Joseph R. Marcus Gerald S. Schur Gerald T. Shekleton James A. Scheer Daniel R. Cherry Edward P. Gamson Kathleen A. Rheintgen Thomas W. Tolpin | 16,665 24,003 22,839 28,903 27,429 25,060 22,053 27,466 29,434 29,054 29,381 34,044 27,600 |

I hereby authorize the U.S. attorney or agent named herein to accept and follow instructions from T. KIMURA PATENT OFFICE (Insert Foreign Associate) as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, I will so notify the U.S. attorney or agent named herein.

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